

Application No. 10/511,522
Response to Office action dated 03/07/2006
Response dated 06/07/2006

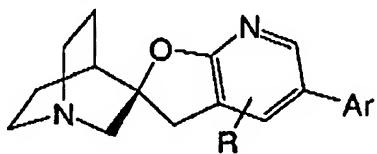
Amendments to the Claims:

This listing of claims will replace all previous versions, and listings, of claims in this application.

Listing of Claims:

Claims 1 - 22 (canceled).

Claim 23 (new) A compound according to Formula I:



I

or a pharmaceutically-acceptable salt thereof, wherein

Ar is selected from a 2-, or 3-linked thienyl or benzo-fused thienyl substituted with 0, 1, 2 or 3 substituents independently selected at each occurrence from C₁₋₄ alkyl, C₁₋₄ alkoxy, C₁₋₄ halogenated alkyl, C₁₋₄ oxygenated alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, halogen, -CO₂R¹, -C(O)R¹, -CN, -NO₂, -NR¹R².

R¹ and R² are independently selected at each occurrence from hydrogen or C₁₋₄ alkyl;

R is a substituent selected from hydrogen, C₁₋₄ alkyl, C₁₋₄ halogenated alkyl, C₁₋₄ oxygenated alkyl, or halogen.

Claim 24 (new) A compound according to Claim 1 or a pharmaceutically-acceptable salt thereof, wherein:

Ar is a 2-, or 3-linked thienyl having 0 or 1 substituents selected from methyl, ethyl, or halogen, and R is hydrogen.

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Claim 25 (new) A compound according to Claim 23, selected from:

(2'R)-5'-(thiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(thiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(benzo[b]thiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(benzo[b]thiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-methylthiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(4-methylthiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-chlorothiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-chlorothiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-fluorothiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-bromothiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-fluorothiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-bromothiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-4-{spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridin-5'-yl]thiophene-2-carbonitrile, or
(2'R)-5-{spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridin-5'-yl]thiophene-2-carbonitrile.

Claim 26 (new) A pharmaceutical composition comprising a compound according to Claim 23, and a pharmaceutically-acceptable diluent or carrier.

Claim 27 (new) A pharmaceutical composition according to Claim 26, comprising a compound selected from:

(2'R)-5'-(thiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(thiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine];

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(2'R)-5'-(benzo[b]thiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(benzo[b]thiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-methylthiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(4-methylthiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-chlorothiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-chlorothiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-fluorothiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-bromothiophen-2-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-fluorothiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-5'-(5-bromothiophen-3-yl)spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridine];
(2'R)-4-{spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridin-5'-yl]thiophene-2-carbonitrile, or
(2'R)-5-{spiro[1-azabicyclo[2.2.2]octane-3,2' (3'H)-furo[2,3-b]pyridin-5'-yl]thiophene-2-carbonitrile,
or a pharmaceutically-acceptable salt of any foregoing compound,
and a pharmaceutically-acceptable diluent or carrier.

Claim 28 (new) A compound according to Claim 23, wherein one or more of the atoms is a radioisotope of the element.

Claim 29 (new) A compound according to Claim 28, wherein the radioisotope is tritium.